Dated Information PLEASE DO NOT DELAY concerns March 19-21 convention

SPECIAL CONVENTION EDITION

SILICON GULCH GAZETTE

7th Computer Faire Expects 25,000-40,000 Attendees

The 7th West Coast Computer Faire will take place in San Francisco's huge Civic Auditorium and Brooks Hall, March 19 - 21 (Fri - Sun). It drew 32,000 last year. This year it has grown to over 600 exhibits, more than 120 conference speakers, and half a dozen full-day and half-day in-depth tutorials.

Educational Uses Expanding

Microcomputers are being installed in schools at an explosive rate. Preschoolers, as well as elementary and secondary school students, are learning to use computers. Many northern California school districts now have full-time curriculum coordinators for computer education. Several even have entire computer curriculum centers.

Reflecting this expanded interest, the Computer Faire Conference program includes a full day of presentations addressing educational applications of microcomputers, as well as a series of half-day and full-day in-depth introductory seminars.

Increasing National Interest

Since last year, IBM, Victor, Xerox, Hewlett-Packard, DEC, and a number of other major companies have entered the microcomputer market. In recent weeks, major cover articles on microcomputing have appeared in such magazines as Newsweek and Time.

Microcomputer ads now regularly appear on prime-time television. Evening newscasts, as well as the feature-oriented television shows are giving increasing coverage to computer topics. There is even a weekly half-hour PBS television show exclusively devoted to microcomputing (KCSM-TV, San Mateo).

All of this predicts that the 7th Faire will be the largest such event ever held in the U.S.

Educational Computing to be Major Topic in Faire Conference

A full day of speakers will present discussions of various aspects of applications of computers in education. These will include five papers discussing preschool applications, as well as uses for the physically impaired, applications in special education, and administrative uses.

There will also be two major Conference sections providing introductions to microcomputing for novices, as well as discussions of uses in such widely varying applications as geographic information, local government, mathmatics, music, art, cartooning, and design of tiffany lamps.

In-Depth Seminars Provide Intros for Educators & Novices

Four half-day and full day seminars are being offered Friday - Sunday at the 7th Computer Faire that are of interest to educators. They provide valuable introductions to microcomputing in general, as well as introductions to several of the most popular computer languages— Basic, Pascal, and Logo.

Each is presented by experienced lecturers who are thoroughly familiar with their topics and their educational value, and who have reputations for excellent, effective presentations.

Additionally, there are two other seminars that address topics of interest to business -oriented attendees. Fees range from $65 to $125 and include Faire registration and handouts. (see details, inside)

Keynote Address by Papert

Human Development and Learning in the Computer Culture

Dr. Seymour Papert, internationally known for his work with computers for young children, and one of computing's major visionaries, will present the keynote address on Saturday, 10:30am-12:30pm, at the Computer Faire.

His talk is entitled, "The Future of Human Development: Learning in the Computer Culture."

Dr. Papert has been a professor at MIT for many years, was the founder of the Logo project, and is currently one of the major figures in the future-oriented, international World Center for Informatics & The Human Resource in Paris, France.

User Groups Meet at the Faire

A large number of user group meetings will be held during the Computer Faire. These provide the opportunity for owners and users of specific computer systems to gather together, exchange information, address common problems, and trade solutions.

These types of meetings are particularly valuable to individuals interested in discussing the availabilty of public-domain software, sources of unusually good buys on new and used equipment, and solutions to hardware and software problems.

Most major microcomputer lines will be represented in these user group meetings, including TRS-80, Apple, Heath, Zenith, Atari, North Star, Osborne, Commodore Pet, Digital Group, etc.

Additionally, there will be meetings for users of CP/M, UCSD Pascal, APL, and Logo software systems.

Delayed Playback Music Synthesis

Hal Chamberlin, author of "Musical Applications of Microprocessors", will be giving a talk entitled "Delayed Playback Music Synthesis Using Small Computers" at the 7th West Coast Computer Faire. In his talk, to be published in the *Proceedings of the 7th West Coast Computer Faire*, Chamberlin will describe "how a personal computer can be used to perform digital audio playback of high fidelity sound using standard floppy disks."

Chamberlin says that digitized audio data, perhaps representing the output of a sophisticated computer music synthesis program or previously digitized sound "can actually be read from standard floppy disks at the rate of 25,000 12 bit samples per second continuously without pause for an indefinite time period."

In addition to the paper, Chamberlin's presentation will include tutorial background material and a live demonstration.

Logo, A Language for Learning: A Hands-On Workshop/Seminar

A Logo workshop/seminar will be offered twice, during the Computer Faire.

The Workshop/Seminar

Logo is a high level computer language designed to enhance human learning. Developed by the Logo Group at M.I.T. under the leadership of Dr. Seymour Papert, it is accessible to young children without sacrificing the sophistication of a modern programming language.

In this interactive programming environment a user may readily create programs of significance with only a few commands. Simple procedures may be defined and then combined into complex projects, or a large task may be subdivided into graspable subprocedures.

Since Logo contains important features of other sophisticated programming languages; procedurality, recursion, list manipulation; it provides an ideal entry vehicle for anyone interested in understanding and communicating effectively with computers.

The Instructors

Dr. Seymour Papert (only in the Saturday workshop/seminar)
Dr. Barbara Bowen, Bonnie Brownstein, Dr. Lois Flynne, William Longmuir, Michael Tempel (all members of Dr. Papert's Logo Group)

The Logo Group are all affiliated with Logo, the Computer Learning Center, LCSI. Among them, they have extensive experience in educating youngsters, teacher training, and software development. The instructors have been trained by Seymour Papert and have conducted numerous workshops, lectures, and demonstrations.

(For general information about LCSI, write Logo Computer Systems, 999 Avenue of the Americas, NYC 10018, (212) 564-6020. Dr. Papert's address is World Center for Informatics & The Human Resource, 24 Rue Clement Marot, Paris, France 75008.

Participation

Twenty participants will experience a hands-on workshop. An additional twenty individuals who will be accepted as auditors will have the opportunity to participate in all aspects of the workshop except using the equipment.

Schedule

The first section of this course will take place on Saturday, March 20, 1pm-6pm including a half-hour break. The second section will be on Sunday, March 21, 10am-3:30pm including a one-hour lunch break.

Registration Fees

$95 for hands-on registrants (limited to 20 per section), $65 for auditors (limited to 20 per section). Preregistration is strongly advised (see "How to Register" on the In-Depth Tutorials page inside this issue).

Bottom Line on Micros

First-time buyers of microcomputer ware face the grueling task of choosing one system from the many available. According to David M. Pittle, of Smart Management Systems in San Rafael, California, "Today the cost of using the computer has dropped so much that we can look at new uses with a more open mind and willingness to experiment."

Pittle will give a talk entitled "Bottom-line Micros" at the 7th West Coast Computer Faire. In his talk, to be published in the *Proceedings of the 7th West Coast Computer*, he will offer guidelines "for the acquisition of a microcomputer adequate to serve a small business or other small organization." He will cover the steps of requirements analysis, feasibility study, benefit/cost analysis, and choice of hard- and software.

Computer History for Beginners

"Microcomputers are no longer a dream, but a reality and there is an urgent need for every child to be exposed to the ideas, the people responsible for their conception and the computer itself," says Peggy Comer. Comer, of the Sunburst School in Glendale, Arizona, will be offering a talk entitled "Computer History for Beginners" at the 7th West Coast Computer Faire.

In the talk, to be published in the *Proceedings of the 7th West Coast Computer Faire*, Comer will present an outline for such a computer history course. The course begins with discussions of attitudes toward computers, covers their development through history (did you know that in 1673 the philosopher Leibniz built an adding calculator?), and introduces the children to programming.

MicroTeach — Courseware Made Easy

There is a growing interest in the use of microcomputers in schools, and a number of courseware generator systems have become available. In his 7th West Coast Computer Faire talk "MICROTEACH — Courseware Production made Easy," Thomas P. Bun will describe this system.

"The MICROTEACH System by COMPUMAX ·is characterized by a menu-driven approach, having the available options always visible on the screen, and leading the author through the subsequent stages of courseware development step-by-step," says Bun.

In his presentation, Bun will explain why an author using MICROTEACH doesn't have to learn any computer languages or become familiar with systems commands.

School Review

The Winter, 1982 issue of "School Microware Reviews", the guide to quality in microcomputer courseware, will be available in February. This second issue of the semiannual publication will contain significant improvements over the Summer '81 premier issue. The issue price is $20.

"School Microware Reviews" is available from Dresden Associates, Box 246, Dresden, ME, 04342; 207-737-4466.

A full day of speakers on Educational & Preschool Computing will make presentations on Saturday at the Faire.

Note: **CHILDREN AT THE FAIRE**

The Computer Faire is a conference and trade exposition about computing and information processing. It is designed for mature individuals who have a sincere interest in learning about (or learning more about) computing, information management, computers, and "the information society".

These topics are presented at the Faire, presented by adults, and presented for adults.. . and mature, seriously interested young people and students. Although the Faire includes some element of entertainment and occasional electronic games, the Faire is not appropriate for children nor for immature young people. (Among other things, this is reflected in the single registration fee, for adults.)

Parents and teachers are discouraged from bringing immature individuals to the Faire. To do so is unfair to the other attendees, unfair to the speakers, unfair to the exhibitors, . . . and unfair to the children.

Therefore:

Children found playing or otherwise causing a disturbance in the convention center may be ejected from the building — just as they would if they were being disruptive in a university classroom, business office, engineering lab, or training seminar (or, for that matter, in a theatre, play, or symphony). The park in front of the Auditorium may be appropriate for children's play; the Faire is not.

Faire Smoking

By city ordinance, smoking is permitted only in the entrance lobby of the Civic Auditorium. It is explicitly prohibited in the conference halls, perhaps due to limited ventilation.

ORDER FORM

ORDER FORM

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BULK ORDERS

Computer Faire proceedings may be ordered in bulk quantities at a discount.

For complete details, write or phone Computer Faire, 333 Swett Road, Woodside CA 94062, (415)851-7075.

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Introduction to Business Computing

This 4-hour tutorial is for the business decision-maker wishing to obtain a solid overview and understanding of the uses and limitations of currently available inexpensive business computers.

Questions that will be addressed include:

What can a business executive really do with an inexpensive computer?

How can a microcomputer be applied to decision-making, job quotes, financial planning, government and tax reports, graphic presentations, staff efficiency, electronic filing, information management, etc.?

How can a small computer be effectively and practically used in a fast-paced, highly competitive, rapidly changing business environment?

What does a business person need to know about how the equipment works, what computer programs are and what they do, what equipment and programs are currently available, what they really can and cannot do, and how they apply to modern business?

The Seminar

Business problems and available problem-solving tools
The state of business/financial systems/programs
Computer features a businessperson should know
Comparitive survey of popular business micros
What you see, and what to look for, in a computer
Software — getting a computer to do what you want
Applications software for business and financial users
Discussion focusing on registrants' specific problems

The Lecturer

Michael Levy
Independent management consultant
Business systems analyst
Trouble-shooter for Massachusetts venture capitalists
Experienced business executive, including several years as President of GRI Computer Corp, a multi-million dollar, east coast manufacturer (specialized systems, not represented in the Faire exhibition).

Schedule

This seminar will be offered on Friday, March 19th, and repeated for second and third groups on Saturday and Sunday, March 20-21.

Each group will meet 9:30-12:30 for a formal presentation, and will reconvene at 4pm-5pm for an in-depth question-and-answer session. This will give particpants an opportunity to apply what they have learned in the morning session as they tour the 600-or-so exhibits, and return to ask questions about their own applications, plus questions that will undoubtedly arise during the day.

Registration Fees

$95, includes registration for the Faire, handouts, and reference notes. Preregistration is *strongly* advised.

Pascal & Software Development

Pascal is a major computer language of wide popularity and considerable power as a software development tool. This 4½-hour tutorial will provide a strong introduction to the language and the powerful facilities it offers to the userr.

The Seminar

Overview of Pascal development & implementation
General form of a Pascal program
UCSD Pascal vs. standard Pascal vs. others
Thinking in Pascal, software engineering techniques
Simple Pascal commands and program components
Application examples — financial, stocks, real-estate
Text and string processing, a dictionary program
Large programs, separate compilation, linking, library
Pascal file facilities, database application example
Pascal graphics and music applications, examples

The Lecturer

T. G. (Ted) Lewis
Assoc. Prof., Computer Sci., Oregon State Univ.
20 years of experience in computing
Extensive work with micros in education, business
Industry consultant, author of 10 books, regular technical writer, author of the 1981 book, *Pascal Programming for the Apple*, past Associate Editor, *Computer* Magazine

Schedule

This seminar will be offered only once, Sunday, March 21st. It will meet 10am-noon, and reconvene 12:30-3pm.

Registration Fees

$95, includes registration for the Faire, handouts, and reference notes. Preregistration is *strongly* advised.

In-Depth Tutorials

The 100+ speakers in the 7th Computer Faire's conference program, and the 600+ trade exhibits provide wide insight into inexpensive computing facilities and applications in home, business, education and industry.

The following half-day and full-day seminars are offered to compliment and supplement that variety by providing in-depth, carefully prepared, pragmatic tutorials on the subjects indicated. Each includes complete seminar handouts and valuable reference notes.

Fundamentals of Microcomputers

This full-day tutorial provides a comprehensive overview of microcomputer equipment, programs and programming, applications, and sources of additional information.

The Seminar

What is a microcomputer?
Differences between micros, minis, and large computers
What microcomputers can and cannot do
Basic components of microcomputer hardware
Families of micros defined by central processing units
Computer terminals and their characteristics
Peripheral devices, interfaces, standards & types
Computer networking and telecommunications
Microcomputer systems software & utility software
Computer languages and applications programs
Getting started, costs, purchase options, expansion
Review, sources of additional information and assistance, questions & answers

The Lecturer

Colin Mick
V. P. & Dir. of Res., Decision Information Sciences
Decade+ in information science & communications
Extensive research in aspects of information usage
Ph.D. , Communication Research, Stanford U.
Regular user of multiple microcomputers for word processing, financial modeling, etc.
Note: If this seminar is as large as expected, Dr. Mick will be joined by Dr. Robert Mason, a regular lecturing partner of comparable skill and experience.

Schedule

This seminar will be offered once on Saturday, March 20th, and repeated for a second group on Sunday, March 21st. It will meet 9am-12:15, break for an hour, and reconvene 1:15-5pm, with 15-minute breaks in the morning and afternoon sessions.

Registration Fees

$125, includes registration for the Faire, handouts, and reference notes. Preregistration is *strongly* advised.

How to Register

These tutorials are expected to be heavily subscribed. Enrollment is limited to 110 per section. Although you may register on-site during the Faire (March 19-21), seminars may be filled to capacity by Faire time. Preregistration is *strongly* advised. Preregistration also speeds up check-in and entry.

Each seminar registration fee includes the $15 Computer Faire registration/admission. If you register for more than one seminar, or if you pay the $15 Computer Faire fee separately, seminar fees will be reduced so you pay the $15 Faire registration only once.

To preregister, call:
Seminar Registration Desk
Faire Headquarters
(415)851-7075, 10am-4pm, Monday-Friday.

MasterCard and Visa accepted by phone or on-site.

All seminars will meet in San Francisco's Civic Auditorium, in the Civic Center, near 9th & Market. The seminar entrance is at the front of the Auditorium on Grove Street near Larkin Street.

How to Select a Business Computer

This 6-hour seminar is for the business person who is seriously considering the purchase of a computer for their business, but has major questions regarding choice of machine, software, support, best buy, etc.

Questions that will be addressed include:

Should you really get your own computer?
What do you need to know in selecting your system?
How do you define your system needs?
How can you get the best value from your suppliers?
How can you insure that your selection will be your best selection?

The Seminar

Alternatives to getting your own computer
What you are really getting into
Sources of information and assistance
Introduction to computer terminology & operation
Determining the size of the system you need
What to look for (and look out for) in equipment
What to look for in business applications software
How to select the best vendor for your needs
Selecting and using specialists & consultants
Cost-saving techniques for dealing with vendors
Criteria to use in your final selection

The Lecturer

Arnold M. Roberts
Twelve years experience in business data processing
Manager of systems software development while with the American Broadcasting Co.
Regular lecturer in Professional Development Seminars
Producer of computer software packages for business
Experienced in marketing and management
Currently President of ADC Associates
Strong background in pragmatic analysis and design of business computer systems, their implementation, technical support, and in-house training

Schedule

This seminar will be offered in two 3-hour sessions on Friday, March 19th, and will be repeated for another group in another pair of 3-hour sessions on Sunday, March 21st. The sessions will be 9:30-12:30 and 2:00-5:00pm.

Registration Fees

$125, includes admission to the Faire, handouts, and reference notes. Enrollment is limited to 110. Preregistration is *strongly* advised (see below). ·

Introduction to UNIX and C

Unix is a popular operating system now appearing on a variety of 16-bit microcomputers. It is accompanied by and written in a language called "C", a powerful language that provides the programmer with comprehensive access to the computer's capabilities. This 7-hour seminar provides in-depth introductions to both Unix and C.

The Seminar

Unix overview, origins, licensing from AT&T
Unix directories, moving around in your filespace
You and files — file creation, editing, copying, moving
Files, filters, pipes, command language
Getting started in C — structure in C
C control statements, variables, pointers, arrays
Programming techniques in a Unix environment

The Lecturer

James Joyce
Experienced lecturer & computer educator
Has taught over 2,000 people how to use Unix and C
Experience on over a dozen different Unix systems
Documentation specialist
Regular consultant to government and industry
Taught Computer Science, full-time for 7 years, at the University of California - Berkeley

Schedule

This seminar will be offered only once, Sunday, March 21st. It will meet, 9am-noon, and reconvene 1pm-5pm.

Registration Fees

$125, includes admission to the Faire, handouts, and reference notes. Preregistration is *strongly* advised.

7th COMPUTER FAIRE CONFERENCE PROGRAM

UNUSUAL APPLICATIONS (Part I)
(Friday, p.m.)
A Microcomputer-Based Geographic Information System
Benjamin Pierce, Stanford University
More for Less: The Microcomputer in Local Government
M. F. Groat, City of San Francisco
The Word Processing — Phototypesetting Interface with Automatic Pagination
Donald H. McCunn, Design Enterprises of S. F.
Fifteen Variations on a Theme: A Computer-Oriented Algorithm
Dmitri Thoro, et al, San Jose State University

PANEL: WHAT IS THE UNIX OPERATING SYSTEM & WHY IS IT SO HOT?
James Joyce, Gene Dronek, Bill Tuthill (Friday, p.m.)

INEXPENSIVE BUSINESS COMPUTING (Part I)
(Friday, p.m.)
Which Stock-Market Software?
R. E. Packer, Ph.D.
An Introduction to Buying a Business Computer
Arnold M. Roberts, ADC Associates

PROJECTIONS OF THE FUTURE
(Friday, p.m.)
The First Computer/Videodisc Game: A Glimpse into the Future
David H. Ahl, et al, Creative Computing
The Microcomputing Industry Today and Tommorow,
Rodnay Zaks, Sybex

INTERNATIONAL NETWORKS & MICROCOMPUTING
(Friday, p.m.)
Computer Networks in the U. K.
Rod Goodman, University of Hull, England
Microcomputer Networks in Japan
Toshiaki Yasuda, Tokyo Denki University
The Microcomputer Industry in France
J. P. Lamoitier, Sybex
Viewdata — The Beginning of the End
Graham G. Hawker, Metrotech, England

MICROCOMPUTER SOFTWARE
(Friday, p.m.)
MINMAX: A Minimum Executive — or — What to Do While Waiting for a Long Printout
Tom Pittman
Evaluation of Your Pascal, Basic or Fortran
Alan R. Miller, New Mexico Tech & Interface Age Magazine
Fun with APL
Mokuri Cherlin, Strategic, Inc.
"Blaise": A Portable CMOS Bioterminal Programmable in Pascal
H. Tavernier, et al, Faculte de Medecine Pitie-Salpetriere, Paris

COMPUTER AIDED DESIGN
(Friday, p.m.)
The Initial Graphics Exchange Specification: A Key to Future CAD/CAM Systems
Paul Hollingshead
Design Automation Techniques
David W. Russell, Dasoft Design Systems

VIEWS ON WORD PROCESSING
(Friday, p.m.)
The Antry Consumers' Guide to Word Processing
Martin L. Dean, Attorney
Open Discussion: Working with a Microcomputer Word Processor
Hal Glatzer

HARDWARE STANDARDS
(Friday, p.m.)
The IEEE-488 Bus for Personal Computers: An Overview
Peter Baum, Apple Computer
Reaching Out — Computer Communications Means More Terms and Standards
David L. Shaughnessy, University of California at Berkeley

HARDWARE DESIGN
(Friday, p.m.)
A Fifth Generation Amateur Radio Repeater Controller
Ed Ingber, Advanced Computer Controls
Implementing a Video Controller Using Programmable Array Logic
Ehud "Udi" Gordon, Monolithic Memories, Inc.
FIFO's: Rubber-Band Memories to Hold Your System Together
Chuck Hastings, Monolithic Memories
Microprogrammable Filter
Kiran Majithia, et al, IBM & San Jose State University

KEYBOARD KONSIDERATIONS
(Friday, p.m.)
Four Switchable Keyboards for Computers
Albert Kolb, Carmel Middle School (California)
Increasing Throughput with the Dvorak Keyboard
Don Fitchorn, Tandy Electronics

INFORMATION FOR COMPUTER NOVICES
(Saturday, a.m.)
Microcomputing Languages, or How to Talk to Your Computer
June B. Moore, J. D.
Towards Computer Literacy
James D. Milojkovic, Stanford University
Computer History for Beginners
Peggy Comer, Sunburst School (Arizona)

INEXPENSIVE BUSINESS COMPUTING (Part II)
(Saturday, p.m.)
The Manager's Desktop Computer
Nicholas Rosa, Nicholas Rosa Associates
The Throwaway Computer
Michael Levy, Mindware, Inc.
Bottom-Line Micros
David M. Pittle, Smart Management Systems
Personal Computers on Business Games
Mituo Takahashi, Seikei University, Tokyo

PANEL: DATA MANAGEMENT SYSTEMS FOR CP/M MACHINES
(Saturday, p.m.)
Access/80: Report Generation to Data Management in Three Steps
Frederic C. Gey, Friends Software
FMS-80
Rick Merlich, Systems Plus
MDBS
Mike Gagle, Micro Data Base Systems, Inc.
An Overview of Condor Series 20 RDBMS
Robert A. Cohen, Condor Computer Corp.
Overview of SELECTOR-V
Bob Goodman, Micro.Ap, Inc.
DBASE-II
Wayne Ratliff, Ashton-Tate

PANEL: THE IBM PERSONAL COMPUTER: IT'S IMPACT & POTENTIAL IN THE MICROCOMPUTER INDUSTRY
John Reutter, Megasoft (Saturday, a.m.)
The P. C. and the Small Business Applications Market
Ben Dyer, Peachtree Software
P. C. — It's Impact on the Microcomputer Industry
Bill Gates, Microsoft
The P. C. as a Productivity Tool in the Office of the Future
Seymour Rubenstein, Micropro International
The IBM P. C. in the CP/M World
John Katsoras & Jim Handy, Digital Research
Add-in Memory & Mass Storage for the IBM P. C.
Bob Lindgren, DataMac
The IBM P. C. Hardware Peripherals Market
Dave Wertman, Tecmar, Inc.
A Publisher's View of the IBM P. C.
Dave Bunell & Jim Edlin, P. C. Magazine
The IBM P. C. & It's Impact on Retail Computer Sales
Ab Abbley, Computerland Corporate

APPLES & 6502's
(Saturday, p.m.)
Enhancing Your Apple II: Exact Field Sync
Don Lancaster, author
A Thermometer in an Apple for Agriculture, Home and Laboratory
Walter Maclay, Strawberry Tree Computers
Simple Communications Between Apples
Keith E. Schubert, Blue Mountain Community College
Inexpensive Expansion for Your 6502 Computer
Winfried Wofacker

DETAILS FOR COMPUTER NOVICES
(Saturday, p.m.)
How to Buy Your Own Computer
Jerry Willis, et al,Texas Tech University
Software Development and Operating Procedures for Personal Computers and Microcomputers
Paul Holliday, Computer Sciences Corporation

COMPUTER CAMP: Purpose, Technique & Educational Success
Garry White, Computer Camp, Inc. (Saturday, late p.m.)

PERSONAL COMPUTER GRAPHICS
(Saturday, a.m.)
Snail Graphics: A Graphics Kit for Runic
Marty Franz
Interpas and Rascal: A Playful Pascal Cartoon Programming System
Michael Moshell, et al, Gentleware Corp.
Computer Animation Comes to Personal Computing
David Fox, et al

MICROCOMPUTING IN MEDICINE (Part I)
(Saturday, p.m.)
Public Domain Software in Medicine: The MUMPS Connection
Larry L. Stoneburner, M. D.
Implementation of an Ambulatory Medical Information System on an LSI-11 Based PDP-11/23 Microcomputer
Frederick R. Jelovsek, et al, Duke University Medical Center
Microcomputer Applications in Academic Medicine
Thomas N. Abdella, et al, University of Tennessee College of Medicine
Implementing Full ANS MUMPS on a Microprocessor
David J. Marcus, et al, Micronetics Design & Med Logic Systems

MICROCOMPUTING IN MEDICINE (Part II)
(Saturday, late p.m.)
Medical Image Analysis with a Microcomputer
Michael L. Richardson, M. D.
Design of a Computerized Pulmonary Laboratory
G. B. Rothbart, et al, Science Applications
The Community Health Information Project (CHIP): Developing a Community-Based Information Utility for the Disabled Using Microcomputers
Joel S. Yudken, Mid-Peninsula Conversion Project
Systems Analysis for Small Computers: A Case Study
Rodert van Spyk, California State University at Hayward

ARTISTIC APPLICATIONS
(Saturday, noontime)
Computer Assisted Design of Tiffany Lamps
Mike Higgins, Space Glass
Art and Intelligence: An Artist's Approach to Artificial Intelligence
Stephen W. Long, Canada

PRESCHOOL COMPUTING
(Saturday, a.m.)
Foundations for the Use of Computers in Preschool Classrooms
Jerome R. Schmidt, et al, Education Services
A Review of Preschool Children's Use of the Computer
Kathleen M. Swigger, North Texas State University
Visual Discrimination and Preschoolers
Deborrah Smithy-Willis, et al, Texas Tech University
Electronic Interaction with the Preschool Handicapped Learner
David L. Craig, Texas Tech University
Computer Applications in Assessment and Evaluation for Preschool Children
Dee LaMont Johnson, Texas Tech University

EDUCATIONAL COMPUTING (Part I)
(Saturday, p.m.)
Recommendation for Logo Learning Centers
Vicki Carver
Special Education Management System Using Microcomputers
Leonard T. Meuer, Travis School District (California)
Benefits of Using Computers in Special Education
Mary M. Humphrey, et al, Teaching Tools

EDUCATIONAL COMPUTING (Part II)
(Saturday, late p.m.)
A Suggested Model for Establishing the Validity of Computer Assisted Instructional Materials
Sherwin Steffin, Edu-Ware Services
Microteach — Courseware Production Made Easy
Thomas P. Bun, Compumax
Microcomputers on Education in Japan
Atsuro Takemoto, Chiba Institute of Technology, Japan
Computers Free for the Asking
Michael Potts, Educational Counseling Institute

UCSD PASCAL: USUS' DAY AT THE FAIRE
(Saturday, all day)
An Introduction to the p-System
Jim Bandy, SofTech Microsystems
An Introduction for Pascal Programmers to the UCSD Pascal Language & System
Rich Gleaves, Volition Systems
Concealed Application Successes from the p-System
Jim Bandy, SofTech Microsystems
The Incredible Text Printer: Achieving Version Independence in an Ambitious Program for the UCSD Operating System
James Gagne, Datamed Research, Inc.
Modular Programming Using UCSD Pascal Units in the UCSD Pascal Advanced Operating System 1.0
Barry Damchak, Advanced Computer Design
The Modula-2 Interface to the Apple II and Apple Pascal
Roger Sumner, Volition Systems
An Expert Users' Panel on Pascal Language Topics
Richard Gleaves, Barry Damchak, Russ Daniels, Tom Pittman, John Hoot, Michael Hadjioannou

PANEL FOR PROGRAMMERS: GETTING INTO THE PACKAGED SOFTWARE BUSINESS
David Ferris, David Ferris & Associates, England (Sunday, p.m.)
What Software Publishers Can Do for Program Developers
Seymour Rubenstein, Micropro International
What Distributers Can Do for Program Developers
Bob Leff, Softsel
Financing Necessary for the Programmer Going into Business & How to Raise the Money
Jacqueline Morby, TA Associates
What Programmers Will Have to Do If They Market Their Package by Themselves
Gordon Eubanks, Digital Research

LEGAL ASPECTS OF SOFTWARE
(Sunday, p.m.)
Legal Care for Software
Daniel Remer, Attorney
Electronic Game Pirates: The Scramble for Viable Protection
Michael D. Scott, The Scott Report

EMPLOYMENT: OLD & NEW
(Sunday, noontime)
How to Leave and Compete with Your Employer Without Getting Sued
James H. Pooley, Mosher, Pooley, Sullivan & Hendren
Getting the Best Computer Job
Kent D. Kitts, Omicrom

WRITING & DOCUMENTATION
(Sunday, p.m.)
Instructing the Lowly Human Customer: The Survival Value of Providing User-Friendly Documentatin and Manuals
Nicholas Rosa & Sharon Roas, Sharon Rosa Technical Writing Services
Writing for the "Special Interest" Computer Press
John Walker, Sextant Magazine
Systems Documentation and System Malfunctions
John P. Walter, California State University Dominguez Hills
Documentation for Human Beings
Arthur Naiman

7th COMPUTER FAIRE CONFERENCE PROGRAM

COMPUTER & ELECTRONIC MUSIC
(Sunday, noontime)
Delayed Playback Music Synthesis Using Small Computers
Hal Chamberlin, Micro Technology Unlimited
The Medieval Melody-Maker: A LISP Program
Arthur Hills, Sonoma State University
The Soundchaser Computer Music System
David M. Kusek, Passport Designs

BUCHLA ON MUSIC SYSTEMS
(Sunday, p.m.)
Some Aspects of High-Tech Musical Instrument Design
Don Buchla, Artists Research Collective

PHILOSOPHICAL CONSIDERATIONS
(Sunday, noontime)
A Bionic Approach to Speech Processing
Bradley C. Stewart, Covox
Information Processing by the Computer and the Central Nervous System (A Comparison)
C. Torda, Stanford University

COMPUTER RETAILER'S OPEN MEETING
(Sunday, noon)

3-DAY DEMO: AMATEUR RADIO TELETYPE & PACKET DATA TRANSMISSION
Stuart Neblett, Communication Society

UNUSUAL APPLICATIONS (Part II)
(Sunday, p.m.)
The Well Behaved Home
Carter Compton Collins, University of the Pacific
Speed Reading and Peripheral Vision Techniques for Computers,
Myron Zeissler, Eagle Software
Simulation Training Research with Microcomputer Systems
Allen Munro, et al, Behavioral Technology Laboratories

THE COMPUTER BUSINESS
(Sunday, p.m.)
Raising Capital for the Development of Software and Other Computer Technology Using R&D Limited Partnerships
Fred M. Greguras, Attorney
MISA: The Insurance Program for the Microcompputer Industry
David S. Chen, MISA & MPA Insurance Services, Inc.

ANNUAL AWARDS PRESENTATIONS
(Saturday, noontime)
Creattive Computing Award for 1981
David Ahl, Creative Computing Magazine
Softalk Award
Jo Hilliard, Softalk Magazine

USER GROUP & SPECIAL INTEREST GROUP MEETINGS
(open to all interested parties) (primarily Sunday a.m.)
TRS-80 Users' Open Meeting
(no host)
Apple Users' Open Meeting
(no host)
Heath Users' Group L Nancy Strunk
First International Atari Computer Users Group Forum
James Capparell (sponsored by independent user groups)
International North Star Users' Group
Bill Banaghan
First Osborne Group (FOG) Open Meeting
Frank Morton
Commodore Pet & Vic Users' Open Meeting
(no host)
Apple Medical Users' Group Meeting
Larry Stoneburner
NorCal Digital Group Owners
James Jacobsen
CP/M Users' Open Meeting
(no host)
USUS Informal Meeting & Birds-of-a-Feather Sessions (UCSD Pascal)
Winsor Brown
APL Users' Group
Mokurai Cherlin
Logo Learning Activities
Lois Flynne

Conference Session

Computer Graphics Developments

Three conference presentations at the 7th West Coast Computer Faire will explore the colorful world of computer graphics.

"Computer Animation which would have required a roomful of large computers just a decade ago can be created today on new graphics-oriented personal computers, such as the Atari 400/800 Computer," say David Fox and Mitchell Waite, authors of "Computer Animation Primer."

In their upcoming talk, "Computer Animation Comes to Personal Computing," Fox and Mitchell will assert that Atari users no longer have to be advanced Assembly Language programmers to produce quality animation. The authors will describe how BASIC programmers can create superior animation on an Atari computer.

In "INTERPAS and RASCAL: A Playful Pascal Cartoon Programming System," three speakers will describe Rascal, a cartoon animation dialect of Apple Pascal and the INTERPAS interpreter, which can run a RASCAL program while showing the actual executed commands, line by line.

Michael Moshell, Charles Hughes, and Garry Amann of Gentleware Corporation will discuss the dialect and interpreter, developed as part of the "Computer Power" programming curriculum. RASCAL and INTERPAS are being extended for use by other developers and private users and will soon be implemented on other microcomputers.

Marty Franz says his "Snail Graphics" programming language is moving fast to open new vistas in computer graphics. In his talk, "Snail Graphics: A Graphics Kit for Runic," he will describe this interactive language for CP/M computers.

Runic is "extensible," meaning that the user can add new words to the language anytime he or she wishes.

"The words are a simple vocabulary for commanding a pen-carrying snail to move across an x-y coordinate system." says Franz, "The Runic programmer then uses these words to create his own word definitions for drawing pictures. This 'vocabulary' approach . . . is a powerful feature of extensible programming languages."

All Faire presentations will be published in the *Proceedings of the 7th West Coast Computer Faire*, available at the show in March.

Conference Session

Handicapped Preschoolers and Computers

"Communication is the vital ingredient in the success of the learning process," says David L. Craig of the College of Education at Texas Tech University. In his talk, "Electronic Interaction with the Preschool Handicapped Learner," Craig says that the microcomputer can be a useful tool for young handicapped children. "Any communication mode can be interfaced with or adapted to computers," says Craig.

"Available to the consumer are a variety of devices which sense and transmit messages from virtually any voluntary muscle movement," says Craig, "If no muscle movement consistent enough for any of these devices is found, it is possible to tap electrical energy from a muscle-connected electrode for the signal."

In his talk, which will be published in the *Proceedings of the 7th West Coast Computer Faire*, Craig will discuss what he calls the "critical components" of the acquisition of a language system adequate to communicate via electronic devices, and will outline "motivation strategies inherent in operating the microcomputer."

Craig will illustrate his program, which offers the following for at least 600 students: class lists, program summaries, individual data files, pupil counts, mailing labels, program titles and teachers files.
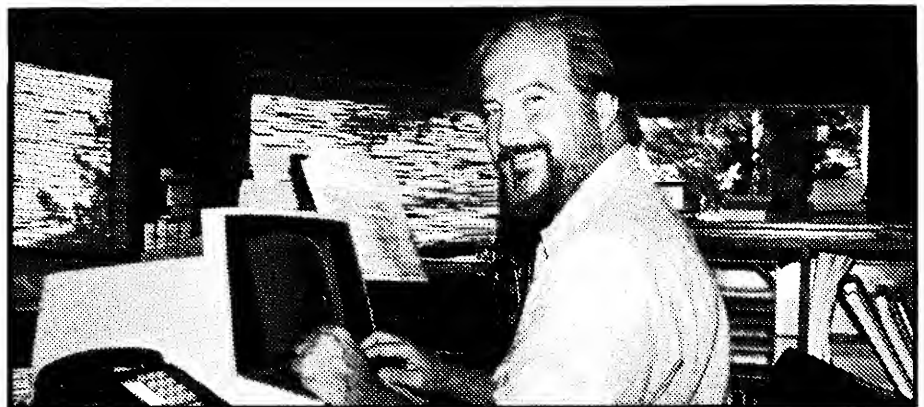

Preschoolers' Visual Discrimination

For the last two years, the Department of Obstetrics and Gynecology of the University of Tennessee at Memphis has been implementing software systems designed to handle a range of functions particular to the academic medical environment. Dr. Thomas Abdella, in "Microcomputer Applications in Academic Medicine," will discuss his department's search for greater efficiency.

Among the uses to which they put their system is test grading, which, Abdella says, "is clearly an improvement over the manual methods and it is faster and more flexible than the university test-scoring service." His department also uses graphics generation programs for such projects as the production of 35mm transparencies used in presentations and lectures.

One of the most useful (and most difficult to implement) projects was the clinical database management system. Abdella attributes the difficulties to "the inadequacies and unreliability of the available commercial software" but notes that "in spite of the initial difficulties it has turned out to be the single most important function of our microcomputer project." Dr. Abdella's paper will be published in the *Proceedings of the 7th West Coast Computer Faire*, available at the show in March.

AVOID LONG LINES!
PRE-REGISTER FOR FAIRE

Although the Computer Faire, itself, is not staffed to handle preregistration, it has arranged for a number of cooperating stores to carry prereg packets. A partial list is below.

The stores prefer that you drop by to pick up your prereg — they'd like to see you and have you see what they have to offer. ("Know your dealer.") However, should you be unable to do so, several of them are accepting **mail orders**. . .*if* you do the following:

1. Send your mail order *early*. (Remember, the U.S. Mail Service will be handling its delivery in both directions.)
2. Send full payment (phone the store for their reg fee; by FTC regulations, the Faire cannot tell them what to charge), *and* a stamped, self-addressed, legal-size envelope.

The stores accepting **mail order** preregistrations are marked in the following list with an asterisk.

Data Domain of Schaumburg*
Plaza De Las Flores
1612 E.Algonquin Rd
Schaumburg IL 60195
(312) 397-8700

Opamp Technical Books*
1033 N. Sycamore Ave
Los Angeles CA 90038
(213) 464-4322

Computerland South Bay
16720 Hawthorne Blvd
Lawndale CA 90260
(213) 371-4624

SCR Electronics
5303 Lincoln Ave
Cypress CA 90630
(714)527-2554

Thorpe Datasystems Inc*
7114 Owensmouth Ave
Canoga Park CA 91303
(213) 703-6900

Computerland
289 E. Highland
San Bernardino CA 92405
(714) 886-6838

Computer Ware*
6791 Westminster Ave
Westminster CA 92683
(714) 891-2584

Computers Plus*
204 W.Canon Perdido
Santa Barbara CA 93101
(805) 963-4542

MicroXchange
222 E.Carrillo St No. 101
Santa Barbara CA 93101
(805) 963-4187

Coastal Computers
986 Monterey St
San Luis Obispo CA 93401
(805) 543-9339

Computerland
223 S.Broadway
Santa Maria CA 93454
(805) 928-1919

National Computer Center
3202 E.Ashlan Ave
Fresno CA 93726
(209) 227-8479

Zackit/Monterey*
350 Del Monte Ave
Monterey CA 93940
(408) 375-3144

Affordable Computer*
716A Lighthouse Ave
Pacific Grove CA 93950
(408) 373-7177

Lotus Century*
64 Westlake Mall
Westlake Shopping Ctr
Daly City CA 94015
(415) 992-5230

Computerland
4546 El Camino Real
Los Altos CA 94022
(415) 941-8154

Kepler's Books
821 El Camino Real
Menlo Park CA 94025
(415) 324-4321

Byte Shop
1415 W.El Camino Real
Mtn View CA 94040
(415) 969-5464

Digital Deli
80 W. El Camino Real
Mtn View CA 94040
(415) 961-2670

Heathkit Electronics Ctr
2001 Middlefield Rd
Redwood City CA 94063
(415) 365-8155

Computer Plus
1328 S. Mary Ave
Sunnyvale CA 94087
(408) 735-1199

Arrow Computer Supply*
1301 Harrison
San Francisco CA 94103
(415) 864-0900

American Ink Products*
527 Howard St
San Francisco CA 94105
(415) 982-0161

Computerland
117 Fremont St
San Francisco CA 94105
(415) 546-1592

AIDS
271 Sutter
San Francisco CA 94108

Computerland the Castro
2272 Market St
San Francisco CA 94114
(415) 864-8080

AIDS
301 Balboa St
San Francisco CA 94118
(415) 221-8500

Computerland El Cerrito
10042 San Pablo
El Cerrito CA 94530
(415) 527-8844

PC Computers*
10166 San Pablo Ave
El Cerrito CA 94530

Byte Shoppe
1122 B St
Hayward CA 94541
(415) 537-2983

Computer Hayward*
22634 Foothill Blvd
Hayward CA 94541
(415) 538-8080

North Bay Computers*
6526 Washington
Yountville CA 94599
(707) 944-8885

Berkeley Computer*
1569 Solano Ave
Berkeley CA 94707
(415) 526-5600

Computerland Marin
1930 4th St
San Rafael CA 94901
(415) 459-1767

Marin Computer Center*
50 El Camino Dr
Corte Madera CA 94925
(415) 924-1955

Affordable Computer Systems
3331 El Camino Real
Santa Clara CA 95051
(408) 249-4221

Computerland
1077 S.Saratoga-Sunnyvale Rd
San Jose CA 95129
(408) 253-8080

Byte Shop 1
6041 Greenback Ln
Citrus Hts CA 95610
(916) 969-2983

Computerland
1537 Howe No. 106
Sacramento CA 95825
(916) 920-8981

Computer Store Corvallis*
2015 NW Circle Blvd
Corvallis OR 97330
(503) 754-0811

Finally! <u>DataCast</u> — A Reference Publication
for Microcomputer <u>Users</u>!

DataCast is a Reference Series for Microcomputer Users

DataCast is the reference publication for *users* of major microcomputer software systems particularly CP/M users, and for those interested in mass digital telecommunications.

It presents comprehensive software documentation, written in a clear and simple style.

It offers in-depth surveys and tutorials about the major information utilities now being created to serve large user communities.

Experienced, full-time staff documentation professionals write the majority of the contents of each publication.

All articles are carefully edited to assure the consistent style, accuracy, and quality expected in a good reference book.

The unsolicited praise in the letters responding to the first issue reflect the value and quality of *DataCast*.

DataCast is for Both Novices & Experienced Users

DataCast offers tutorials for new users, reference documentation for experienced users, and — from time to time internal systems documentation for those who wish to modify a system or understand its internal operation.

DataCast Offers Consistent Coverage of Many Systems

DataCast covers a wide variety of systems and applications software from a number of suppliers. However, all the documentation has the same style, organization and clarity.

DataCast is More of a Book than a Magazine

You can call it a "bookzine" or a "magabook".

Its content is that of a permanent, often-used reference book. Its physical format makes it easy to use as systems documentation.

On the other hand, it is like a magazine in that it is slender, available by subscription, and carries some advertising.

It is an ongoing series, published on a bimonthly basis. This assures that the documentation is timely and reflects the current version of the systems being documented.

Think of it as a magazine, and it's expensive. Think of it as a user's reference book, and it's very inexpensive.

DataCast Subscriptions Save Time and Money

Save 25% over the single-copy price by subscribing to *DataCast*.

You receive each new issue when you subscribe.

Prompt posting of each issue to your mailbox is assured when you are a subscriber.

About the Technical Staff . . .

Jim Warren

Jim has been a consultant, lecturer, writer and editor specializing in small computers since 1968. Back in the first days of microcomputers, he was the first editor of *Dr. Dobb's Journal*, the first publication to provide in-depth software articles and documentation, and a publication that took a strong consumer-advocacy position. He went on to create the microcomputer community's first newspapers (the *Silicon Gulch Gazette*, and later the *Intelligent Machines Journal* now called *InfoWorld*). He founded and currently chairs the West Coast Computer Faires the largest microcomputer conventions, held annually. He is the permanent host of "Computer Chronicles", the first weekly television show focusing on micro-computing and oriented to a computer-literate audience. He has chaired Chapters of the ACM, SIGMICRO, and SIGPLAN, and has served on the Program Committees of the National Computer Conference, IEEE Compcom, and the Computer Society's Asilomar Microprocessor Workshop. He holds a Bachelor's, three Master's degrees and has completed all but his dissertation for a Ph.D. in computer engineering at Stanford University.

Tony Bove and Cheryl Rhodes

Tony Bove and Cheryl Rhodes are a writing and editing team. Tony Bove is a co-author of a Wiley Self-Teaching Guide on using the TRS-80 Model III computer, to be released in the Spring of 1982. As a technical writer for Data General Corp., Tony wrote many tutorials and reference guides, including a prize-winning manual on Business BASIC. As a technical writer for Sybex (a Berkeley publisher of computer books), he provided much of the material for *The CP/M Handbook With MP/M*. As a senior technical writer for Intel, Tony Bove wrote a user's guide that is used as a model for all software tutorials, and as project leader for operating systems documentation he designed a library of fifteen manuals to support a new Intel computer system.

Prior to joining DataCast, Cheryl Rhodes worked extensively with ComputerTown USA!, a project of the People's Computer Company (Menlo Park, CA). Her contributions included writing and designing courseware and teaching microcomputer literacy classes for adults and children. She also designed and taught computer literacy classes for the Peninsula School (Menlo Park), and for the Lawrence Hall of Science (Berkeley, CA), where she coordinated the Apple Van Project. Prior to teaching, Cheryl Rhodes spent five years in data processing, computer operations and documentation, including two years at Data General Corp.

Here's what *DataCast* USERS have to Say
Unsolicited comments from our first readers (and subscribers).

"This first issue should become a collector's gem."
  – *Bill Roch, Elliam Associates, Woodland Hills CA*

"Finally, THE PUBLICATION that covers CP/M from a user's standpoint! ... I suspect that your *DataCast* magazine will soon be in the forefront as 'The User's Reference' . . . your magazine fills the specific needs of CP/M users . . ."
  –*Kelly Smith, CP/M-Net News, Simi Valley CA*

"I think the magazine will make a name for itself not only through its unique orientation but by being well-focused and practical. Unfortunately good publishing like this is becoming a real rarity these days."
  Stephen C. Keeble, Lifetime Learning Publications, Belmont CA

"I found your first issue to be excellent! I'm at a loss to say which article was best. I found they were all very readable, useful, and relevant."
  Carl Burlin, The Software Group, Anaheim CA

"The idea of three approaches to CP/M for various levels from beginner to existing users is well executed. ...Nice mixture of user oriented material and a general overview of the status of CP/M ..."
  Herb Moore, Palo Alto CA

"The articles on telecommunications for personal computerists were particularly needed these days."
  Walter Zintz, Uni-Ops, Walnut Creek CA

Save 33% on Faire Registration

By pooling with friends and associates, you can each save $5 on 7th Faire registration fees — paying $10 each instead of the $15 "at the door" fee. (Or, you can "deal" registrations and earn an extra coupla dollars for yourself or your group). Here's how:

Purchase Faire registrations in blocks of 10, advancing $100 (prepaid or COD). You can return up to 5 of those 10, any time after the Faire and prior to April 15th, and promptly receive a refund of $10 per returned/unused registration.

To do this, send your check or COD order for 10 or more registrations (advancing $100) to:

Pre-registration Desk
Computer Faire
333 Swett Road
Woodside CA 94062

Include your street address (necessary for certified UPS shipping). The Faire pays shipping charges on prepaid orders. You pay shipping and collection charges on COD's.

The Computer Plus Bus

For the third year in a row, the Computer Plus Bus will carry people from Sunnyvale to the Computer Faire and back. This service is offered by Computer Plus at the corner of Mary and Fremont, at De Anza Square Shopping Center in Sunnyvale. There will be a charge for the round-trip bus service.

On Friday, March 19, the bus will leave Computer Plus at 8:30 a.m., and begin its journey back from the Computer Faire at 3:30 p.m. On Saturday, March 20, the bus will leave Sunnyvale at 9 a.m. and leave the Faire at 3:30 p.m.

Reservations with full payment must be made by Wednesday, March 17. For more information call: Computer Plus, (408) 735-1199, 11 a.m. - 7 p.m., Tuesday through Friday, and Saturday 11 a.m. - 6 p.m.

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A.M. Electronics, Inc.
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Creative Publications
Cromemco; Inc.
Citizens Tech & Employment Program
Cuesta Systems, Inc.
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Data Technology Industries
Datamation
DataMost
DataSoft Inc.
Desk Tech
Diablo Systems, Inc.
Dialog Information Services, Inc.
Digital Deli Computer Store
Digital Marketing Corp
Digital Research, Inc.
Digital Words Unlimited
dilithium Press
Doss Industries
Double-Gold Software
Durango Systems Incorporated
Dysan Corp
Eakins Associates, Inc.
Elcom System Peripherals Inc.
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Gould Inc.
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Hayden Book Co
Hayes Microcomputer Products, Inc.
Heath Co.
High Tech Software Prod
Houston Instrument
Howard W. Sams & Co., Inc.
Huntington Computing-Hardware & Software
HW Electronics
I-Protect, VTD Screen
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(IUS)Information Unlimited Software, Inc.
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Inmac
Inner Access Corporation
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Insoft
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Jade Computer Products
Japan Microcomputer Club
JDR Microdevices, Inc.
John Bell Engineering
John Wiley & Sons, Inc.
Kern Publications
Kesa Company
Kraft Systems, Inc.
Krown Computing
L & S Computerware
L-5 Society, Bay Area Chapter
Lazer Microsystems, Inc.
Lifeboat Associates
Lightening Software
Little, Brown and Company
LNW Research Corporation
Lo-Ball Computers
Loadstar Technology Corporation
Macrotronics, Inc.
Magna Soft
Magnolia Microsystems, Inc.
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Microperipheral Corp
MicroPro International Corp
Morrow Designs
Mountain View Press
MPC Peripherals Corporation
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National Micro
DataMac Computer Systems
Northwest Instrument Systems, Inc.
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olive branch Association, Ltd.
Omega Data Peripherals
On-Line Systems
Optimized Systems Software, Inc.
Options Research
Oracle Electronics & Trading
Orange Micro, Inc.
Original Apple Corps
Osborne Computer Corp.
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Philips Test & Measuring Instruments
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Sof/Sys, Inc.
Soft Warehouse
Softalk/Softline
Softape
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West Coast Business Products, Inc.
Western Micro Systems
WIP (Women in Information Processing)
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Zircon International, Inc.